



Missouri
Department of
Natural Resources

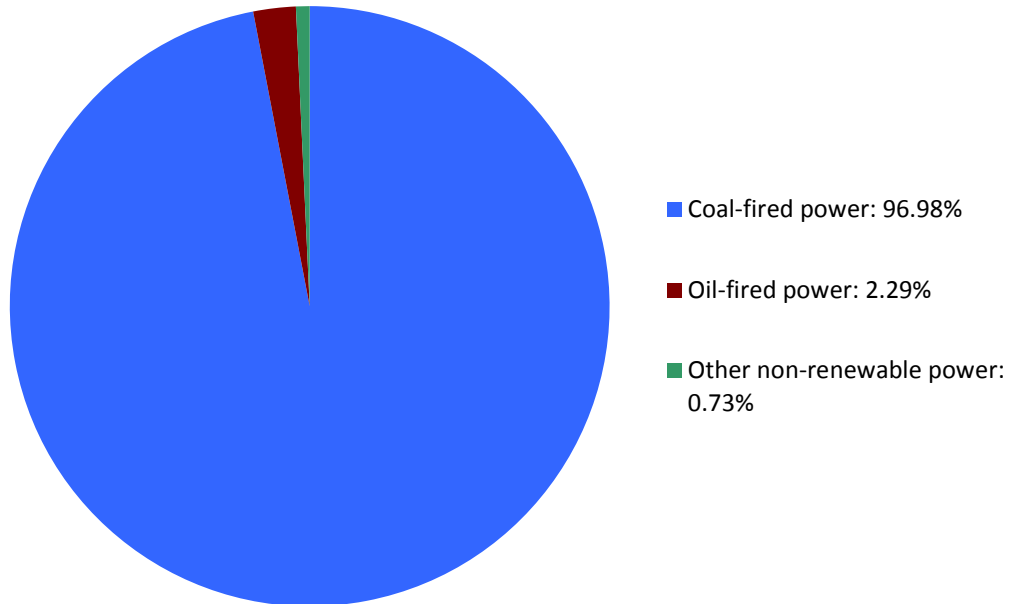
Power Plant: Asbury
Plant Owner: Empire District Electric Company
Power generated in 2009 from non-renewable and renewable sources

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated in 2009 (MWh)	Percent of Total	
Non-renewable sources						
Coal-fired power	14,037,661	96.98%		1,303,281	96.98%	
Natural gas-fired power						
Oil-fired power	331,728	2.29%		30,746	2.29%	
Nuclear power						
Other non-renewable power	105,728	0.73%		9,871	0.73%	
Non-renewable total	14,475,117	100.00%	100.00%	1,343,898	100.00%	100.00%
Renewable sources						
Hydroelectric Power						
Wind						
Waste and biomass						
Solar						
Geothermal						
Landfill Gas						
Renewable total	0	0.00%	0.00%	0	0.00%	0.00%
Grand total all sources	14,475,117	100.00%		1,343,898	100.00%	

Fuel Type	Physical Units	Number of Units
Bituminous Coal	Short Tons	79,931
Sub-Bituminous Coal	Short Tons	709,679
Distillate Fuel Oil	Barrels	1,027
Petroleum Coke	Short Tons	14,136
Tire-Derived Fuel	Short Tons	3,776



Net Generation by Fuel Type, 2009 for Asbury





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Emissions from Electricity Generated in 2009

Plant	Carbon Dioxide(CO2) (Tons)	Carbon Monoxide(CO) (Tons)	Ammonia (NH3) (Tons)	Nitrogen Oxides (NOx) (Tons)	Sulfur Dioxides (SO2) (Tons)
Asbury	1,569,193.37	200.57	4.39	794.40	11,006.50

Plant	Volatile Organic Compounds (VOC) (Tons)	Course Particulate Matter (PM10) (Tons)	Fine Particulate Matter (PM2.5) (Tons)	Mercury (Hg) (LBS)
Asbury	27.87	407.64	380.75	32.07

'NV' = Emissions value not available.



Pollution controls installed on Asbury

SO2 Controls			
Plant	Control Equipment	Sorbent Type	Operational Efficiency
Asbury	No SO2 Controls Installed		

NOX Controls				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
Asbury	SCR (SELECTIVE CATALYTIC REDUCTION)	SCR	100.00%	80.00%

Data Sources

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS)
<http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm>
- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data
- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy
http://www.eia.gov/cneaf/electricity/page/eia906_920.html